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DATA-SHEET



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WHY BUY
WHEN YOU CAN HIRE

QUALISTAR

Display your network
analysis... all in picture format!

C.A 8332
C.A 8334

Three Phase
Power Quality
Analysers

OBSERVE, DIAGNOSE, MONITOR...



- Ready-to-use measurements in a glance
- Structured use for accurate and effective operations
- Very simple connections; easily accessed keys
- An instrument "built for the field"
(straps, around-the-neck holder)
- Measurements made in compliance with EN 50160

PRESENTATION

Designed for Electrical Energy departments and Maintenance services in industrial and administrative buildings, the Qualistar C.A 8332 and C.A 8334 give an instantaneous image of the main characteristics of the quality of your electrical network. These instruments also provide numerous calculated values and processing functions in compliance with standards in use (EN 50160, IEC 61000-4-15, IEC 61000-4-30, IEC 61000-4-7).

Principal parameters measured:

- TRMS AC+DC voltage: single voltage up to 480 V ; phase-phase voltage up to 600 V.
- TRMS AC, AC+DC current up to 3000 A (according to sensors used).
- Peak voltage and current.
- Frequency from 40 to 70 Hz.
- Active, reactive and apparent power per phase and their aggregate.
- Active, reactive, consumed and produced energy.
- Harmonics for voltage, current, or power up to the 50th order.

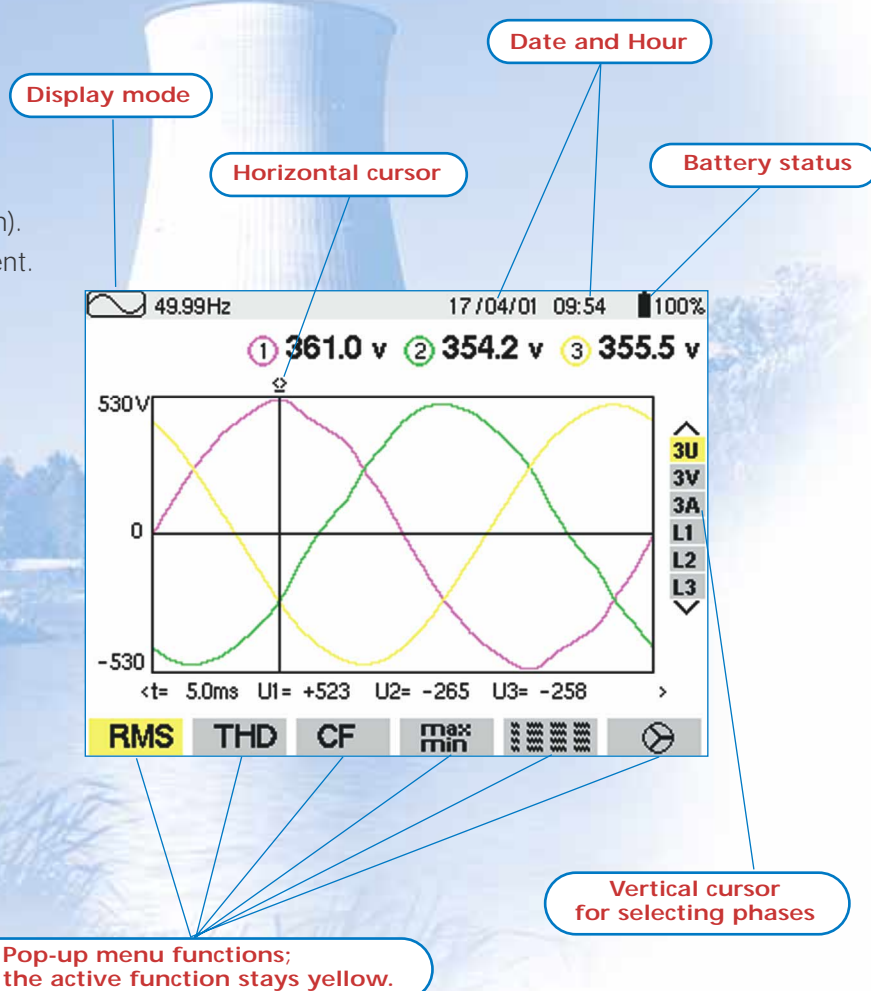
Principal values computed:

- Neutral current.
- Crest factors for current and voltage.
- K factors for current (transformer application).
- Power factor, displacement factor and tangent.
- Short-term voltage flicker.
- Voltage and current unbalance.
- Total harmonic distortion.
- Average, min and max values of any computed value.

Additional functions:

- Graphic data processing.
- Alarms, transients.
- Recording, dating and characteristics of disturbances (swells, dips and interruptions, etc.)
- Data storage.
- Immediate screen printout to printer.
- Screen storage.
- Optical link communication.

Regardless of the screen, the synergy between the display and the keyboard is very efficient.



FUNCTIONS

Along with its high-performance measurements, the Qualistar is ergonomic and offers a user-friendly operating mode.

A keyboard divided into easily identifiable zones

The keys, which are clearly identifiable by their shapes, positioning and pictogram, make mastering the instrument's functions rapid and easy.

Pop-up menus

Cursors and validation

Direct functions

Display modes

Very structured display modes for 3 distinct stages

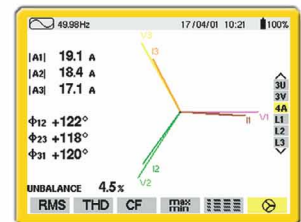
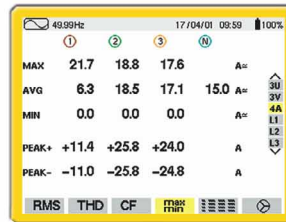
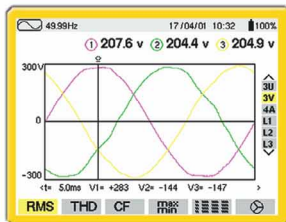
"Observation" stage:



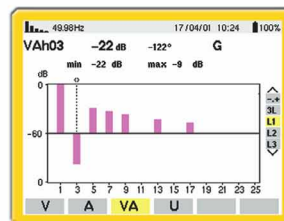
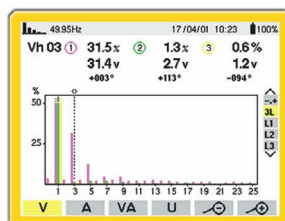
Waveform Mode

In this mode, three types of representations are possible: graphic, table, vectoral.

RMS measurements in U and I. PEAK, MIN, MAX, AVG, KF, Pst, CF, phase shift, unbalance measurements...



"Diagnosis" stage:



Harmonics Mode

Global THD and phase by phase in U, I, V, VA in %, RMS value and harmonics phase shift.

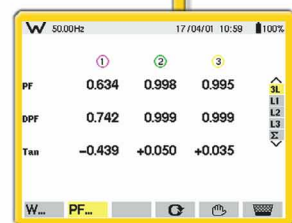
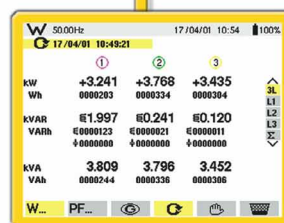
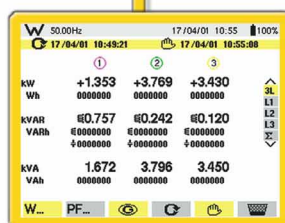
Only the C.A 8334 model offers the harmonics function in VA and the "expert mode". This mode provides an analysis of harmonics influence on neutral heating or rotating machines.

Power / Energy Mode

This mode displays all of the values relative to the power and energy. The Start and Stop keys activate and deactivate the aggregate of energies.

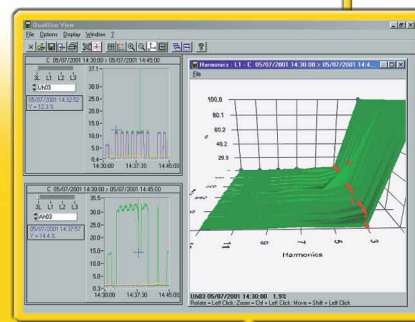
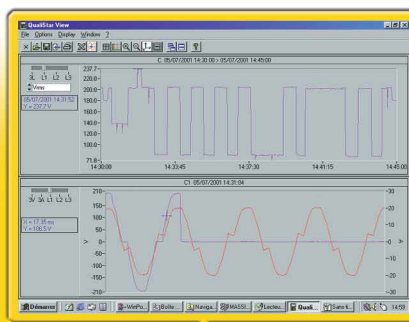
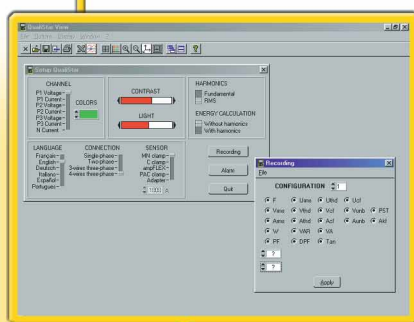
Measurements for:

- W, Var, VA
- Wh, Warh, VAh
- PF, DPF or cos ϕ and tan ϕ



OPERATING SOFTWARE

- Configuring instrument via software: setup, recording and alarms modes.
- Recorded and alarm data processing.
- Graphic representation of data in Windows™ environment.
- Data analysis in compliance with EN 50160 standard.
- Screen printout and transient transfers in BMP format.
- 3D representation of harmonics.
- Data to spreadsheet transfer (Excel).



Input characteristics

Voltages: phase-phase: 600 V TRMS
phase-neutral: 480 V TRMS
Currents: according to sensors
MN clamp: 2 A... 240 A
C clamp: 3 A... 1 200 A
AmpFLEX: 10 A... 3 000 A
PAC: 10 A... 1 000 A AC
10 A... 1 400 A DC
Adapter unit casing for external CT

Functional characteristics

Functions	C.A 8332	C.A 8334
Display	color LCD 320 x 240	color LCD 320 x 240
Memory	2 Mbytes	4 Mbytes
Battery	1800 mAh	3800 mAh
Harmonics	Yes	Yes + expert mode
Recording	Yes (limited)	Yes
Alarms	Yes	Yes
Transients	No	Yes
Mains	AC+DC	AC+DC
Digital link	RS 232	RS 232

General characteristics

Power supply: Mains: 110 V and 230 V
NiMH (9.6 V) rechargeable battery

Autonomy: 10 hours

Temperature for use: 0°... 50°C

Storage temperature: - 40°... 70°C

Standards: EN IEC 61010, 600 V cat. III, pollution 2
Double insulation for inputs and outputs

Dimensions (L x W x H): 180 x 55 x 240

Weight: 1.5 kg with battery

Frequency range: 40 - 70 Hz

Voltage accuracy: ± 0.5 %

Current: ± 0.5 %

Power: ± 1 %

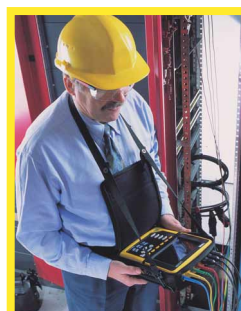
Power factor: ± 0.01

Frequency: ± 0.01 Hz

THD (total harmonic distortion): ± 1 % L ± 2 pts

Energy: ± 1 % L

Sampling frequency: 12.8 kHz / channel at 50 Hz

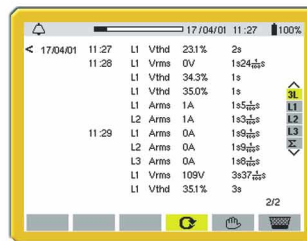


With the around-the-neck holder, making measurements is easy: operating the instrument and reading the displays at the same time.

"Monitoring" stage:

Alarms Mode

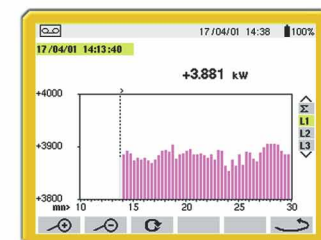
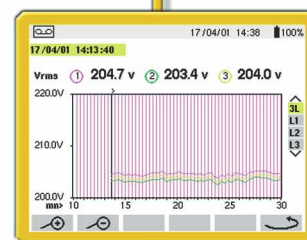
The alarms are defined during the instrument's configuration. The alarm mode displays all threshold events which occur during the measurement period.



Automatic time and date recording of the alarm, the maximum corresponding value, and the duration of the event.

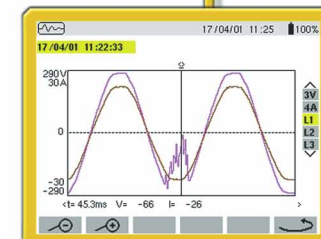
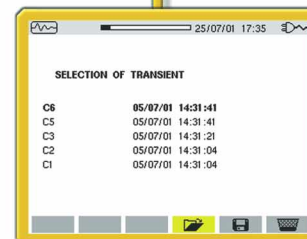
Recording Mode

All desired parameters are saved with their visual graphics during a recording. Note that a bargraph located at the top of the window gives the total recording period, programmable recording period and storing rate.



Transient Mode

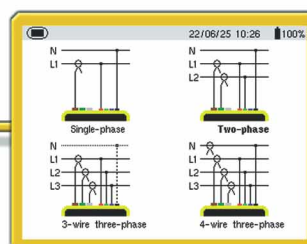
The transient mode captures changes of the voltage and current with triggers on thresholds. Representation over 4 periods of the captured event at 256 counts / period, also available with zoom.



Direct function keys:

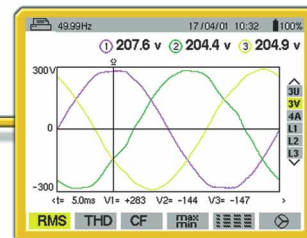
Configuration

The simplicity of the instrument's set-up is enhanced by the use of graphic representations: type of clamp, connection, color of phases, parameters to record...



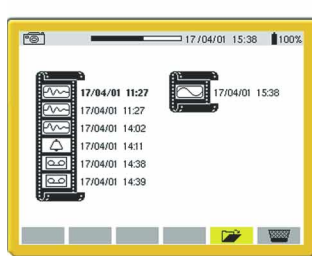
Printing

Qualistar can be connected directly to a printer for immediate screen printing.



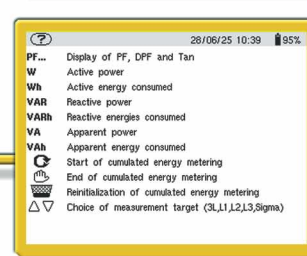
Screen Shot

Press this key to make a copy of the screen. Storing the viewed screen is automatic with date and time recording. Up to 12 screen recordings (C.A 8334).



Help

If needed, the help key explains functions in relation to the viewed screen in simple terms.



Power Quality Analyser :

C	A	8	3	3	2
C	A	8	3	3	4

Instrument comes complete (as per grid) with:

- 1 QualistarView software
- 1 DB9F standard optical lead
- 4 x 3m leads fitted with banana plugs
- 4 crocodile clips
- 1 mains lead
- User's manual

VERSIONS (terminals colors)

French (red, green, yellow, blue) F R
International (red, blue, black, white) I N

CURRENT SENSORS IN A SHOULDER BAG

None X X
Set of 3 C193 clamps (1000A- dia: 52 mm) C X
Set of 3 Ampflex A193 (3000A-dia: 140 mm / length 450 mm) A 1
Set of 3 Ampflex A193 (3000A-dia: 250 mm / length 800 mm) A 2
Set of 3 MN93 clamps (240A- dia: 20 mm) M N
Set of 3 PAC93 clamps (1400A- dia: 42 mm) P A

USER'S MANUAL LANGUAGES

French (by default) F R
English G B
German A L
Italian I T
Spanish E S
Portuguese P T

2P MAINS SUPPLY LEAD

French, German, or Spanish (by default) F
English G
Italian I
Swiss C
USA U

Or:

P01160501:	WATT C.A 8332-F MN clamp	P01160503:	WATT C.A 8332-Int MN clamp
P01160601:	WATT C.A 8334-F MN clamp	P01160603:	WATT C.A 8334-Int MN clamp
P01160502:	WATT C.A 8332-F Ampflex (450 mm)	P01160504:	WATT C.A 8332-Int Ampflex (450 mm)
P01160602:	WATT C.A 8334-F Ampflex (450 mm)	P01160604:	WATT C.A 8334-Int Ampflex (450 mm)

ACCESSORIES:

P01120327:	SET OF 3 C193-F* CLAMPS	P01120321:	SET OF 3 C193-Int** CLAMPS
P01120422:	SET OF 3 MN 93-F* CLAMPS	P01120423:	SET OF 3MN 93-Int** CLAMPS
P01120535:	SET OF 3 AMPFLEX A193 450 mm-F*	P01120523:	SET OF 3 AMPFLEX A193 450 mm-Int**
P01120536:	SET OF 3 AMPFLEX A193 800 mm-F*	P01120524:	SET OF 3 AMPFLEX A193 800 mm-Int**
P01120076:	SET OF 3 PAC 93-F* CLAMPS	P01120077:	SET OF 3 PAC 93-Int** CLAMPS
P01101959:	5A CA833X-F* ADAPTER UNIT	P01101959A:	5A CA833X-Int** ADAPTER UNIT
P01298051:	SHOULDER BAG FOR CABLE N°6	P01298055:	SHOULDER BAG FOR INSTRUMENT N°21

* F = French version: User's manual in French - L1 / red, L2 / green, L3 / yellow, N / blue

** Int. = International version: User's manual in English - L1 / red, L2 / blue, L3 / black, N / white



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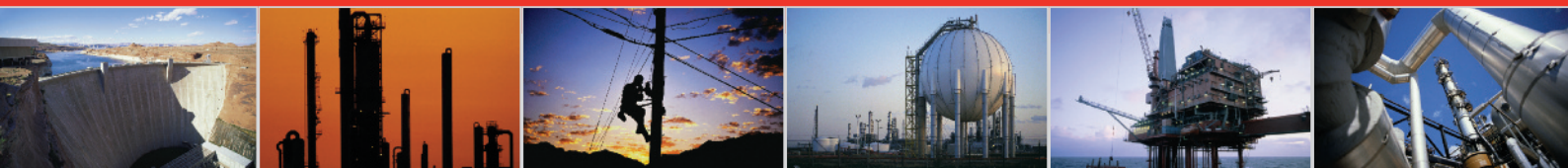
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Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and well-maintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

1 GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

2 OUR PRICE GUARANTEE

Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

For full details check our price-match guarantee online

3 TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

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Inlec are happy to provide you with free advice, from an unbeatable team of experienced, knowledgeable and friendly engineers and hire experts.

5 YOUR GUARANTEE OF THE BEST CUSTOMER SERVICE

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*subject to availability and conditions

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